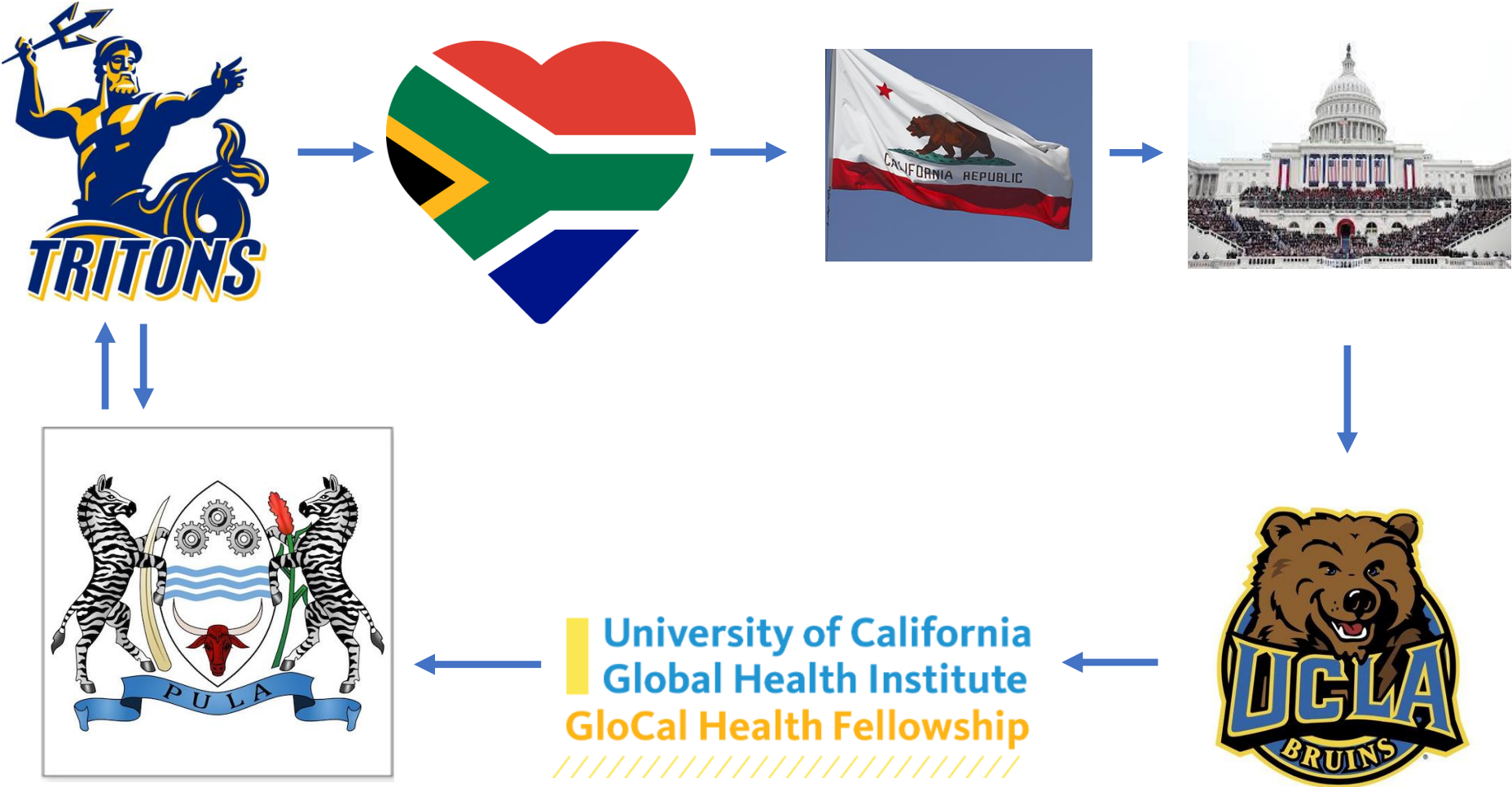# GLOCAL HEALTH FELLOWSHIP CAREER DEVELOPMENT SERIES

Adriane Wynn, Assistant Professor, UC San Diego

CAREER TRAJECTORY

- UCSD
- CPT, South Africa
- State Legislature
- US Senate
- UCLA
- GLOCAL
- UCSD
  - Postdoc
  - Assistant Prof

K AWARDS

K01 – mentored career award

- 3-5 years of mentored salary support & research funds
- Salary support & research funds differ by Institute

K08 – mentored basic/clinical scientist research career development

- 3-5 year award for clinician salary and research related costs

K23 – mentored clinical scientist research career development (patient-oriented)

- 3-5 year award for clinician salary and research related costs

K99/R00 – pathway to independence award

- 5-year award to assist postdoctoral investigators in transitioning to an independent research position (2 years mentored, 3 years independent research)
- Do not need to be a US citizen
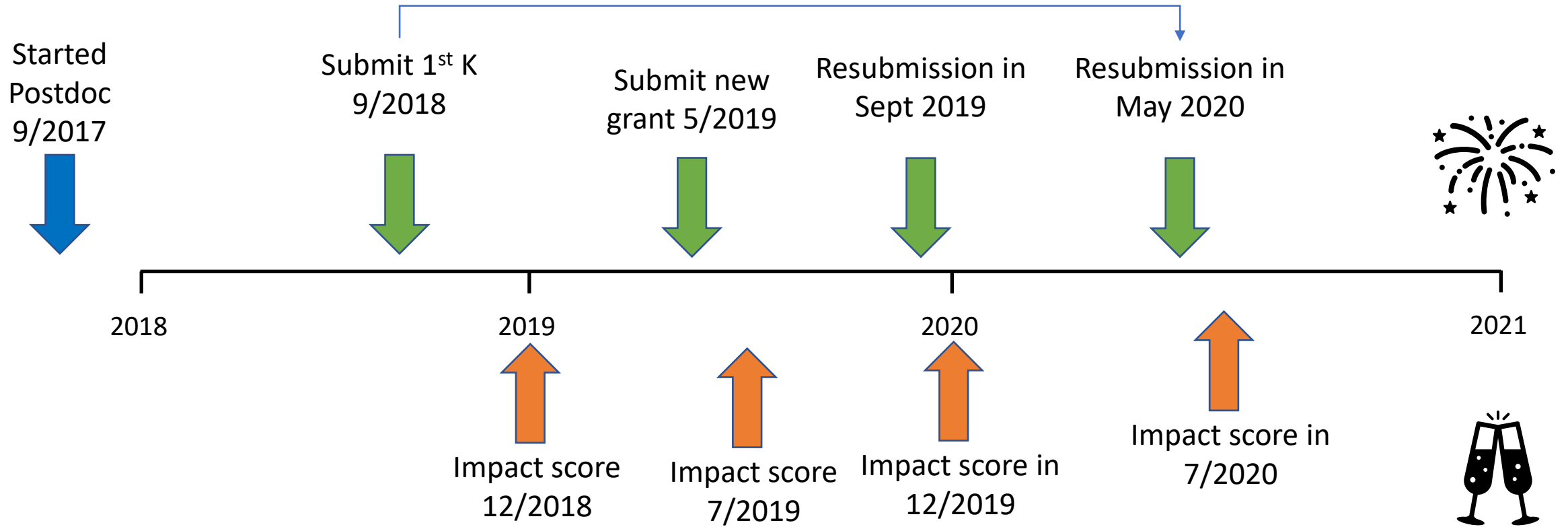
Application Components

1. Candidate

2. Career Development Plan / Career Goals & Objectives

3. Research Plan

4. Mentors

5. Environment & Institutional Commitment to the Candidate

6. Training in Responsible Conduct of Research

Ingredients
- 5 avocados
- Yellow onion
- 2 medium ripe tomatoes
- ½ cup of queso fresco
- Fresh cilantro to taste
- 1-2 medium or 3-4 small limes
- Salt to taste

K01 Timeline

Started Postdoc 9/2017

Submit 1st K 9/2018

Submit new grant 5/2019

Resubmission in Sept 2019

Resubmission in May 2020

2018

2019

2020

2021

Impact score 12/2018

Impact score 7/2019

Impact score in 12/2019

Impact score in 7/2020
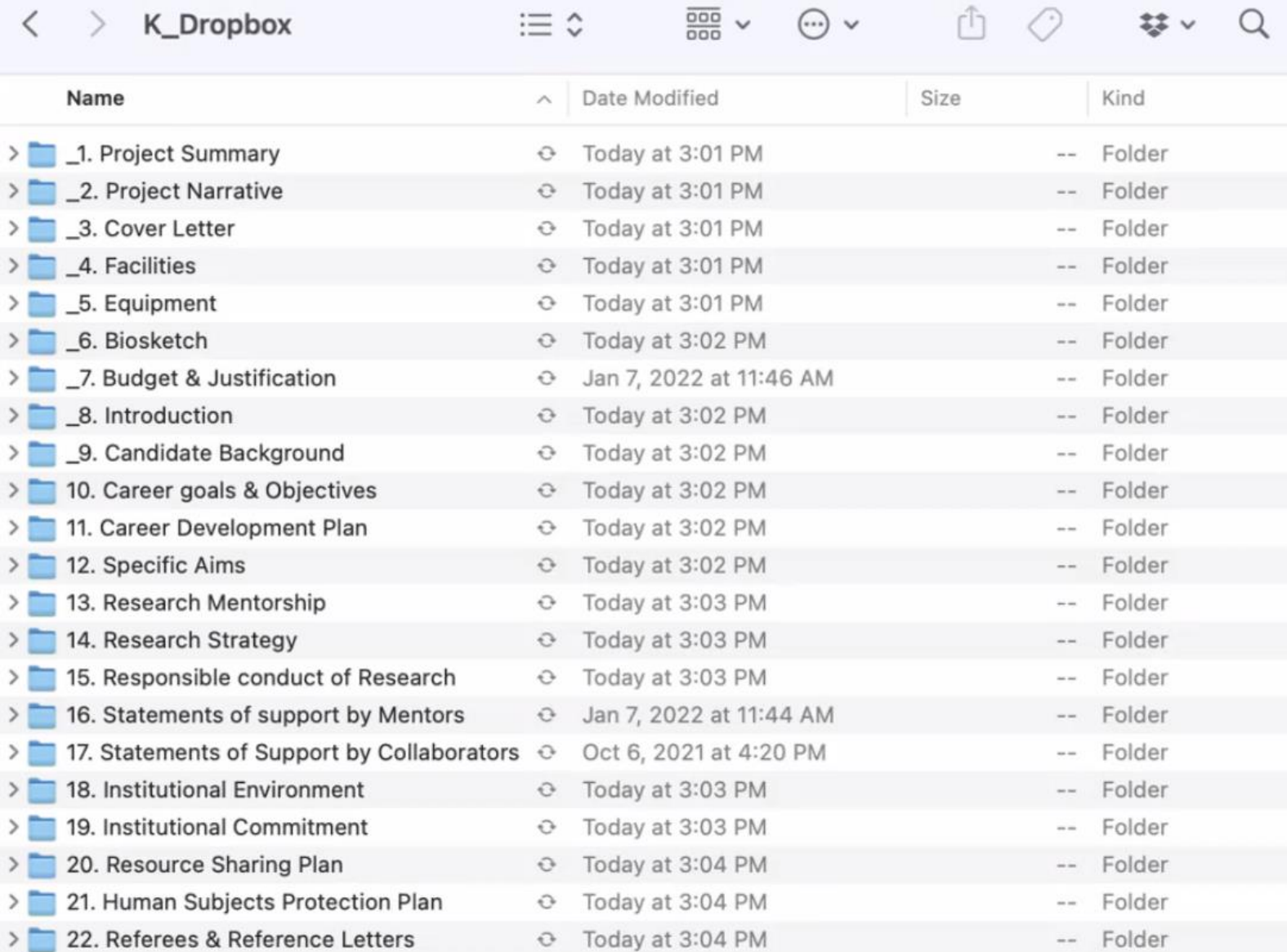
LESSONS LEARNED

START EARLY

- Assume you will not get the award on the first try

- Review the Institute's Strategic Plan / Research Priorities

- Envision how this grant will propel your career forward

- Your goal should be to obtain feedback from as many reviewers as possible (Mock study sections)

START EARLY CONTINUED...

- Download the instructions from the NIH website

- Know the deadlines & create a timeline

- Select faculty/mentoring team

- Draft the Specific Aims and circulate 6 months before deadline
  - Send to program officer with CV/Biosketch

- Do you need preliminary results / authorship

- Review as many K applications from colleagues as possible (repository?)

- Find your institution's administrative contacts

- Request letters of reference and institutional support letter, PI exemptions

DROPBOX / FILE ORGANIZATION

TIMELINE

Components	Due Date
Specific Aims (detailed)	Jan 14
Training Aims	Jan 24
Research Aims	Jan 24
Training in RCR (1 page)	Jan 24
Budget	Jan 31
Biosketches: (5 pages each)	March 13 (final)
Letters of support: Consultants & Collaborators (6 pgs)	March 13:
Statements of Support from Mentors (6 pgs)	March 13:
Institutional Commitment (1 pgs)	March 13
Other sections:	March 13
Letters of Rec:	March 13
O-K Review Abstract Submission	~March 13
Participate in O-K review	~April 10
Submit to HSSPPO	April 20
Make HSSPPO revisions	May 6
NIH AIDS-related deadline	May 7

K01 Timeline

Started
Postdoc
9/2017

Submit 1st K
9/2018

Impact score
12/2018

2018   2019   2020   2021
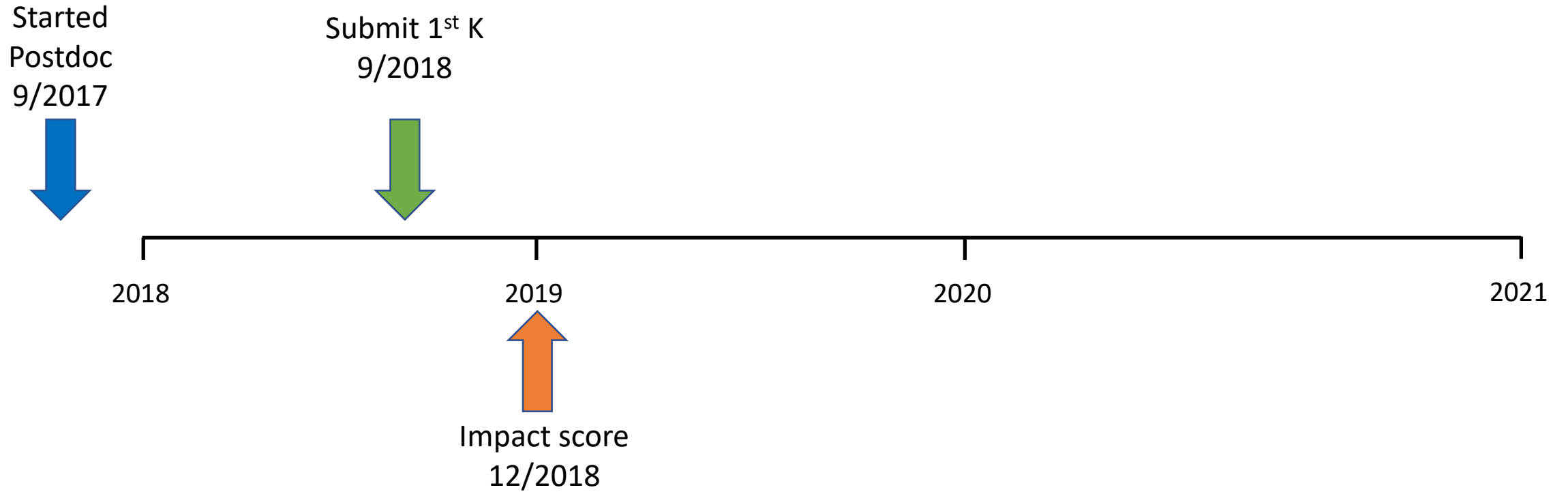
First K01 Submission

Principal Investigator

WYNN, ADRIANE MICHELLE

Applicant Organization: UNIVERSITY OF CALIFORNIA, SAN DIEGO

Review Group: **ZAA1 AA (02)**
National Institute on Alcohol Abuse and Alcoholism Special Emphasis Panel
Review Member Conflict Applications ZAA1 AA (02)
AIDS - EXP. REV.

Meeting Date:	11/29/2018	*RFA/PA:*	PA18-369
Council:	JAN 2019	*PCC:*	AEAF
Requested Start:	04/01/2019		

Project Title: **Modeling the Impact of Alcohol Use on HIV and HSV-2 Incidence in Rakai, Uganda**

SRG Action: **++**

LESSONS LEARNED

BALANCE EXPERIENCE w/ TRAINING NEEDS

Weaknesses

- The candidate has a relatively low publication rate, which questions dissemination likelihood to some extent, although four publications in 2018 suggests an upward trajectory.

- No publications in alcohol.

- Candidate does not have a track record of research in the alcohol area, and as described below there is no explicit training module in this area.

- The training plan omits courses on alcohol epidemiology.

BALANCE EXPERIENCE w/ TRAINING NEEDS

- Fine line between too little and too much experience
  - If you have <5 publications, might appear premature
  - Evidence that a track record is developing
  - Training should help fill in the gaps

- If you already have the skills you are asking to be trained in, reviewers will say you 'don't need additional training.'

Table 1. Prior training and K01 objectives		
Aim	Prior Training	K01 Award Objectives
TA 1. Epi, intersection of alcohol & HIV, & interventions	•Prevalence & correlates of alcohol use among pregnant women & PLHIV •Evaluated an intervention to reduce alcohol use & HIV among pregnant women	Expertise in: •Epidemiology and intersection of alcohol use and HIV in SSA •Interventions to reduce alcohol use & HIV risk in SSA
TA 2. Modeling population impacts of alcohol on HIV	None	Expertise in: •Developing dynamic infectious disease transmission models •Simulating impacts of alcohol use on HIV transmission
TA 3. Economic evaluation of interventions	•Master's coursework in microeconomics •Experience micro-costing interventions with <u>short-term</u> costs & outcomes (≦1 year)	Expertise in: •Developing dynamic cost-effectiveness models incorporating long-term costs and transmission benefits
TA 4. Ethical conduct of research	•Doctoral coursework in Global Health Ethics •Certification in responsible conduct of research through the CITI Program	Expertise in: •Ethical conduct of culturally competent research pertaining to alcohol-using individuals and those at risk for or living with HIV
TA 5. Professional development	•Track record of publications •Successfully obtained UCSD, UCLA, CFAR, NIH GloCal, R21 grants	•3-4 first-authored publications each year •Develop and submit an R01 in Year 4

LESSONS LEARNED

THE RIGHT MENTORSHIP TEAM

Weaknesses

- Mentor ███████ is junior, currently a K01 career development awardee with no experience mentoring K01 awardees.

- Mentor ██████ is junior with no experience mentoring K01 awardees.

- The mentorship structure is unclear with weekly, biweekly, or biannual meetings with mentors (i.e., text, table 3, and letters do no match). Overall, the candidate would benefit from more frequent meetings with the mentors. The accessibility of some of the mentors to the candidate is also unclear (e.g., Mentor Kigozi).

- Plans for monitoring and evaluating the candidate's progress are unspecified.

THE RIGHT MENTORSHIP TEAM

Strong mentorship team

- Primary mentor(s) should be senior with demonstrable mentoring experience
  - Experience listed in letter and biosketch
  - Letters & biosketches should list meeting & content
- List less experienced mentor as co-mentor or co-sponsor
- Can add consultants to fill the gaps
- Every content area and method should be matched to at least one mentor with relevant expertise
  - Include a table

K01 Timeline

Started
Postdoc
9/2017

Submit 1st K
9/2018

Submit new
grant 5/2019

2018

2019

2020

2021

Impact score
12/2018

Impact score
7/2019
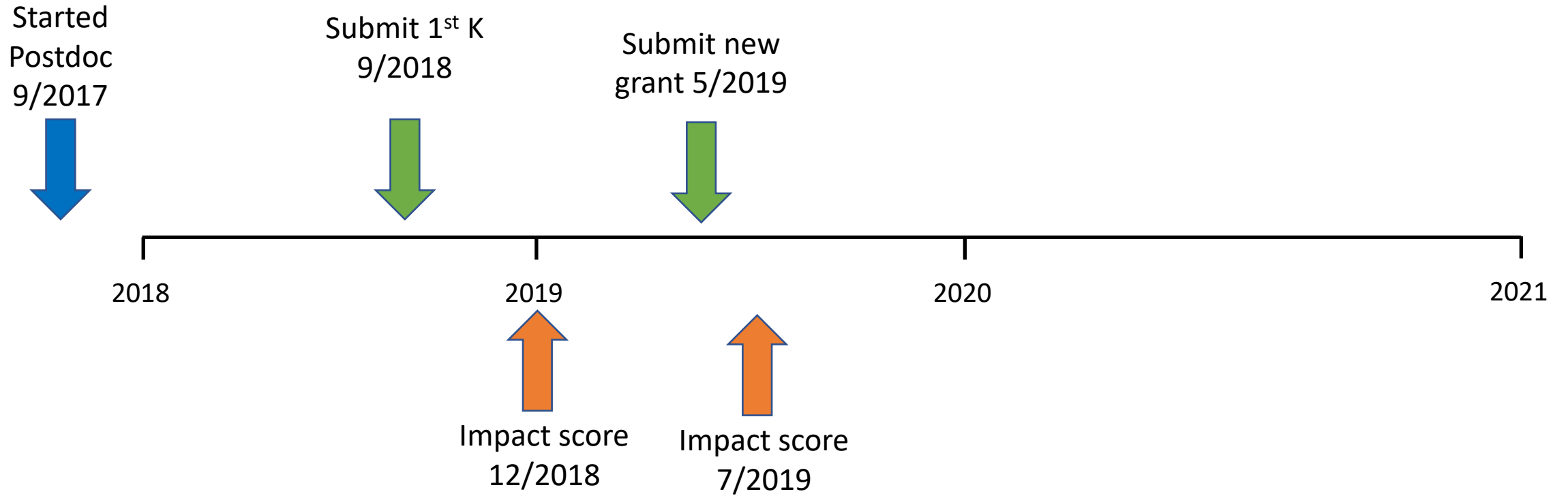
Second K01 Submission

WYNN, ADRIANE MICHELLE

Applicant Organization: **UNIVERSITY OF CALIFORNIA, SAN DIEGO**

Review Group: **PPAH**
Population and Public Health Approaches to HIV/AIDS Study Section
AIDS - EXP. REV.

Meeting Date:	07/15/2019	*RFA/PA:*	PA19-126
Council:	OCT 2019	*PCC:*	CV/RJP
Requested Start:	01/01/2020		

Project Title: **Modeling combination harm reduction to prevent HCV and HIV among people who inject drugs**

SRG Action: **Impact Score:32   Percentile:13 +**

LESSONS LEARNED

INSUFFICIENT DETAIL IN RESEARCH PLAN

Weaknesses

- Model validation was not discussed anywhere.
- Overall design is a bit shallow.
- Modeling procedures lack attention to details that can be easily learned from mentor's modeling studies.

INSUFFICIENT DETAIL IN RESEARCH PLAN

- Clearly describe data and analysis plan

- Power and analysis should be strong for each aim and hypothesis (e.g. attrition, missing data, control for confounding)

- Include up to date statistical software & techniques

- Involve a statistician early on in your planning

- Aims should be linked to a clear and testable hypothesis
  - Critique: Too descriptive / fishing expedition
  - Aims should not be dependent on one another

LESSONS LEARNED

LACK OF SIGNIFICANCE / INNOVATION

Weaknesses

- Scope of science is not very innovative

- Proposed work is very 'west-coast'-centric

LACK OF SIGNIFICANCE / INNOVATION

- Ideally the research is exciting and innovative

- Should have public health or clinical relevance or move the field forward

- If focused on a particular population, discuss importance and/or potential future generalizability

K01 Timeline

Started
Postdoc
9/2017

Submit 1st K
9/2018

Submit new
grant 5/2019

Resubmission in
Sept 2019

2018

2019

2020

2021

Impact score
12/2018

Impact score
7/2019

Impact score in
12/2019
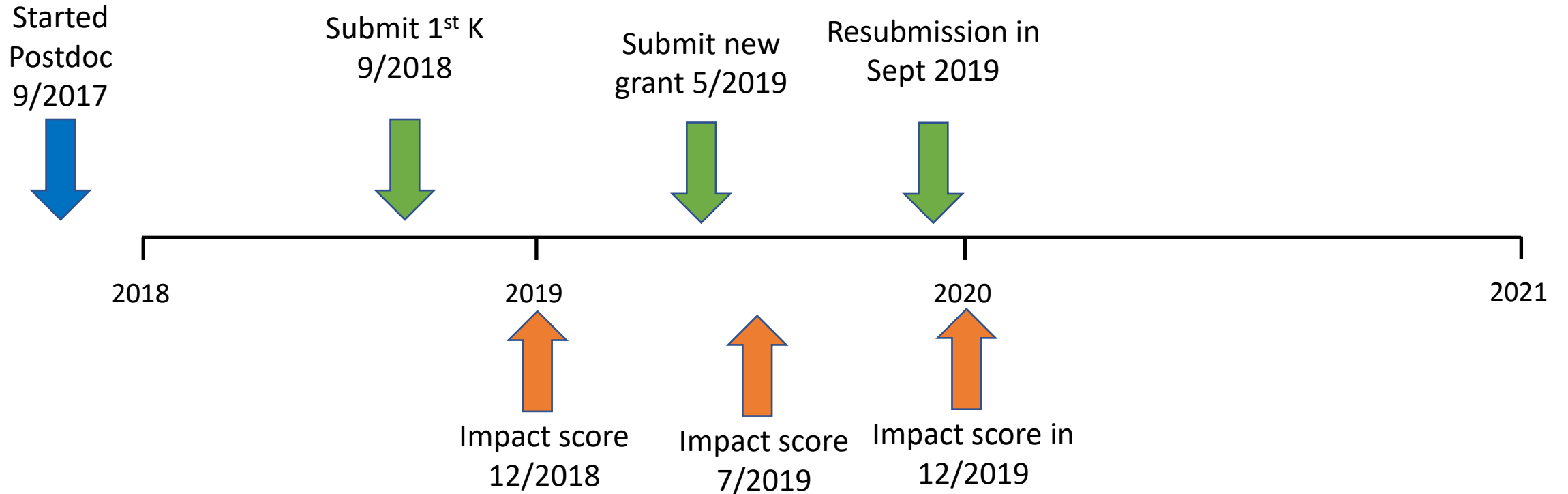
Resubmission of application #2

Principal Investigator

WYNN, ADRIANE MICHELLE

Applicant Organization: **UNIVERSITY OF CALIFORNIA, SAN DIEGO**

Review Group:	**PPAH** **Population and Public Health Approaches to HIV/AIDS Study Section**

Meeting Date:	11/14/2019	*RFA/PA:*	PA19-126
Council:	JAN 2020	*PCC:*	CV/RJP
Requested Start:	04/01/2020		

Project Title:	Modeling combination harm reduction to prevent HCV and HIV among people who inject drugs
SRG Action:	Impact Score:40 Percentile:27 +

LESSON LEARNED

TRAINING GOALS MUST MAP TO RESEARCH AIMS

Weaknesses

- There is no coursework planned that would instruct her in the behavioral and social science theory and methods surround gender

- Her focus on outcomes for women is innovative, however…could better delineate field work and training focused on gender disparities and how results would inform interventions to better serve women clients
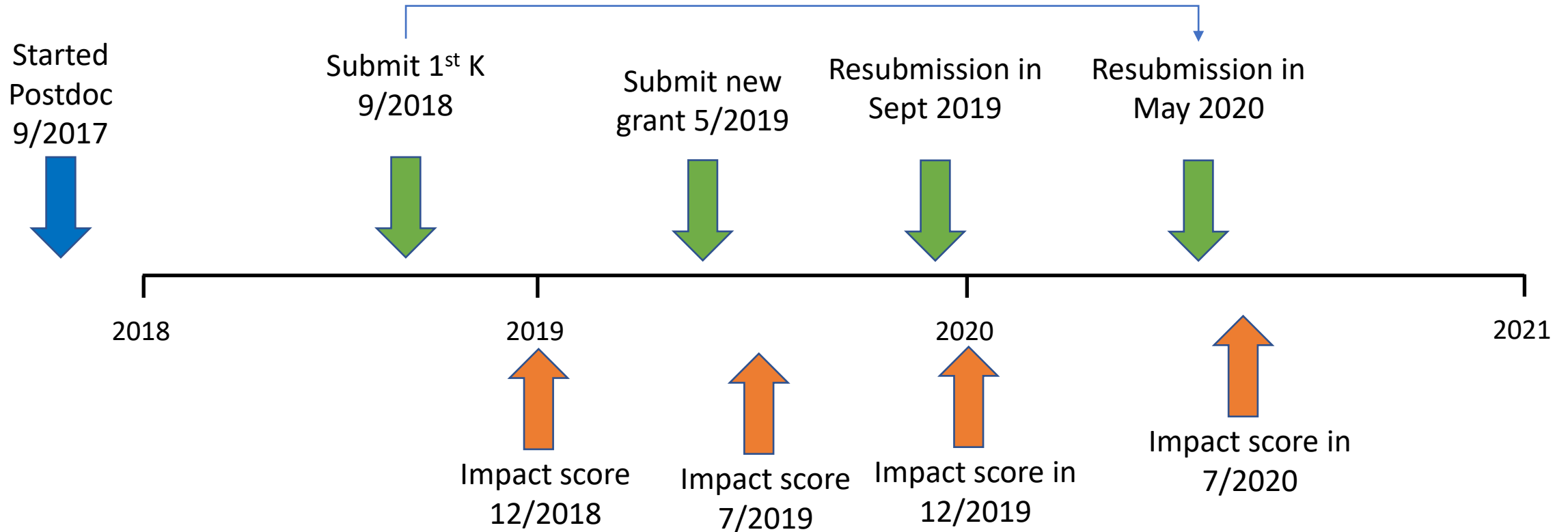
TRAINING GOALS MUST MAP TO RESEARCH AIMS

• New content in research aims should be covered in training aims

• Write your training goals first (some say)

• Include a table of trainings, courses, mentors

Mentor(s)	Training Aim	Y1	Y2	Y3	Y4	Y5	
Dr. Kiene (alcohol research expert), Dr. Kiwanuka (Ugandan infectious disease and alcohol researcher)	**1. Develop expertise in the epidemiology and intersection of alcohol use and HIV and alcohol reduction interventions in the era of UTT in Sub-Saharan Africa.**						
	Uganda site visits (with Dr. Kiwanuka)	X				X	
	UCSD/SDSU courses: SW801 "Global Approaches to Substance Use Prevention & Treatment," UCSD-40213 "Advanced Alcohol Intervention,"	X					
	Directed readings, weekly (Years 1-2) & bi-weekly (Years 3-5) meetings with Dr. Kiene; quarterly calls/meetings with Dr. Kiwanuka	X	X	X	X	X	
	Conference: Research Society on Alcoholism	X		X	X	X	
	Conference: International AIDS Society Conference	X	X			X	
Dr. Martin (infectious disease modeler)	**2. Gain skills in modeling the population impact of alcohol use on HIV epidemics.**						
	UCSD course: CSE7 "Programming with MATLAB"	X					
	UCSD course: "Introduction to Infectious Disease Epidemic and Cost-Effectiveness Modeling for Health Policymaking"	X					
	Directed readings, weekly (Years 1-2) & bi-weekly (Years 3-5) meetings with Dr. Martin on modeling methods	X	X	X	X	X	
	International Conference on Infectious Disease Dynamics				X		

Table 3. Timeline of training activities under the award period

K01 Timeline

Started Postdoc 9/2017

Submit 1st K 9/2018

Submit new grant 5/2019

Resubmission in Sept 2019

Resubmission in May 2020

2018

2019

2020

2021

Impact score 12/2018

Impact score 7/2019

Impact score in 12/2019

Impact score in 7/2020

Resubmission of application #1

Principal Investigator   *Formerly:*   1K01AA027733-01

WYNN, ADRIANE MICHELLE

Applicant Organization: UNIVERSITY OF CALIFORNIA, SAN DIEGO

Review Group: **PPAH**
Population and Public Health Approaches to HIV/AIDS Study Section
AIDS - EXP. REV.

Meeting Date: **07/13/2020**   *RFA/PA:*   **PA19-126**
Council: **OCT 2020**   *PCC:*   **AEAF**
Requested Start: **09/01/2020**

Project Title: **Modeling reductions in harmful alcohol use on HIV transmission and mortality in the era of universal test and treat in Uganda**

SRG Action: **Impact Score:18**

Address Limitations

- Created research aim & training aim on alcohol use and HIV

- Added a senior mentor with expertise in alcohol research

- Added a conceptual model

- Added requested specifics about the data

- Discussed each potential limitation and how I planned to address

- Had more papers published

THANK YOU!